

## Refine Search

### Search Results -

Terms	Documents
L8 and terephthalic acid.ti.	5

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L9

Refine Search

Recall Text

Clear

Interrupt

### Search History

 DATE: Sunday, May 22, 2005    [Printable Copy](#)    [Create Case](#)

#### Set Name Query

side by side

#### Hit Count Set Name

result set

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ*

<u>L9</u>	L8 and terephthalic acid.ti.	5	<u>L9</u>
<u>L8</u>	L7 and oxid\$6 and hydrogen	28	<u>L8</u>
<u>L7</u>	L6 and separ\$6 and catalyst	28	<u>L7</u>
<u>L6</u>	L5 and 562/\$	28	<u>L6</u>
<u>L5</u>	L4 and (carboxybenzaldehyde or trimellitic acid or fluorenone)	96	<u>L5</u>
<u>L4</u>	L3 and impurit\$6	468	<u>L4</u>
<u>L3</u>	L2 and (filter or centrifuge)	1426	<u>L3</u>
<u>L2</u>	TEREPHTHALIC ACID AND SLURRY AND B AND COLOR	2729	<u>L2</u>
<u>L1</u>	TERPHthalic ACID AND SLURRY AND B AND COLOR	16	<u>L1</u>

END OF SEARCH HISTORY

## Hit List

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### Search Results - Record(s) 1 through 10 of 28 returned.

☐ 1. Document ID: US 20050065373 A1

L8: Entry 1 of 28

File: PGPB

Mar 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050065373

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050065373 A1

TITLE: Process for the purification of a crude carboxylic acid slurry

PUBLICATION-DATE: March 24, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sumner, Charles Edwan JR.	Kingsport	TN	US	
Gibson, Philip Edward	Kingsport	TN	US	
Lin, Robert	Kingsport	TN	US	
Fugate, Eric Jackson	Gate City	VA	US	
Arnold, Ernest William	Lake Wylie	SC	US	

US-CL-CURRENT: 562/600

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Ds
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☐ 2. Document ID: US 20040199006 A1

L8: Entry 2 of 28

File: PGPB

Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040199006

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040199006 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: October 7, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Graham, Derek Alexander	Cleveland		GB	
Hamley, Paul Anthony	Nottingham		GB	
Oliver, Raymond	Stockton On Tees		GB	
Poliakoff, Martyn	Nottingham		GB	

Woodcock, Duncan C.	Cheshire	GB
Ilkenhans, Thomas	Cambridge	GB

US-CL-CURRENT: 562/412

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 3. Document ID: US 20040110981 A1

L8: Entry 3 of 28

File: PGPB

Jun 10, 2004

PGPUB-DOCUMENT-NUMBER: 20040110981  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040110981 A1

TITLE: Process for the oxidative purification of terephthalic acid

PUBLICATION-DATE: June 10, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sheppard, Ronald Buford	Voorburg	TN	NL	
Tennant, Brent Alan	Kingsport	TN	US	
Woodruff, Thomas Earl	Kingsport	TN	US	
Lin, Robert	Kingsport		US	

US-CL-CURRENT: 562/486; 562/606

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 4. Document ID: US 20040110980 A1

L8: Entry 4 of 28

File: PGPB

Jun 10, 2004

PGPUB-DOCUMENT-NUMBER: 20040110980  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040110980 A1

TITLE: Process for the oxidative purification of terephthalic acid

PUBLICATION-DATE: June 10, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sheppard, Ronald Buford	Voorburg	TN	NL	
Tennant, Brent Alan	Kingsport	TN	US	
Woodruff, Thomas Earl	Kingsport	TN	US	
Lin, Robert	Kingsport		US	

US-CL-CURRENT: 562/413; 562/486

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 5. Document ID: US 20020028968 A1

L8: Entry 5 of 28

File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020028968

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020028968 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: March 7, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Graham, Derek Alexander	Cleveland		GB	
Hamley, Paul Anthony	Nottingham		GB	
Ilkenhans, Thomas	Cambridge		GB	
Oliver, Raymond	Stockton on Tees		GB	
Poliakoff, Martyn	Nottingham		GB	
Woodcock, Duncan C.	Cheshire		GB	

US-CL-CURRENT: 562/415

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 6. Document ID: US 20020002304 A1

L8: Entry 6 of 28

File: PGPB

Jan 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020002304

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020002304 A1

TITLE: PROCESS OF PURIFYING AND PRODUCING HIGH PURITY AROMATIC POLYCARBOXYLIC ACIDS

PUBLICATION-DATE: January 3, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
LIN, TSONG-DAR VINCENT	HOUSTON	TX	US	

US-CL-CURRENT: 562/485; 562/486

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 7. Document ID: US 6765113 B2

L8: Entry 7 of 28

File: USPT

Jul 20, 2004

US-PAT-NO: 6765113

DOCUMENT-IDENTIFIER: US 6765113 B2

TITLE: Production of aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 8. Document ID: US 6448436 B1

L8: Entry 8 of 28

File: USPT

Sep 10, 2002

US-PAT-NO: 6448436

DOCUMENT-IDENTIFIER: US 6448436 B1

TITLE: Integrated process for the production of 2, 6-naphthalene dicarboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 9. Document ID: US 6392091 B1

L8: Entry 9 of 28

File: USPT

May 21, 2002

US-PAT-NO: 6392091

DOCUMENT-IDENTIFIER: US 6392091 B1

TITLE: Process of purifying and producing high purity aromatic polycarboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 10. Document ID: US 6307099 B1

L8: Entry 10 of 28

File: USPT

Oct 23, 2001

US-PAT-NO: 6307099

DOCUMENT-IDENTIFIER: US 6307099 B1

TITLE: Production of terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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Terms	Documents
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L7 and oxid\$6 and hydrogen	28
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### Search Results - Record(s) 1 through 10 of 28 returned.

☐ 1. Document ID: US 20050065373 A1

L8: Entry 1 of 28

File: PGPB

Mar 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050065373

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050065373 A1

TITLE: Process for the purification of a crude carboxylic acid slurry

PUBLICATION-DATE: March 24, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sumner, Charles Edwan JR.	Kingsport	TN	US	
Gibson, Philip Edward	Kingsport	TN	US	
Lin, Robert	Kingsport	TN	US	
Fugate, Eric Jackson	Gate City	VA	US	
Arnold, Ernest William	Lake Wylie	SC	US	

US-CL-CURRENT: 562/600

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 2. Document ID: US 20040199006 A1

L8: Entry 2 of 28

File: PGPB

Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040199006

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040199006 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: October 7, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Graham, Derek Alexander	Cleveland		GB	
Hamley, Paul Anthony	Nottingham		GB	
Oliver, Raymond	Stockton On Tees		GB	
Poliakoff, Martyn	Nottingham		GB	

Woodcock, Duncan C.                      Cheshire                      GB  
Ilkenhans, Thomas                      Cambridge                      GB

US-CL-CURRENT: 562/412

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 20040110981 A1

L8: Entry 3 of 28

File: PGPB

Jun 10, 2004

PGPUB-DOCUMENT-NUMBER: 20040110981  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040110981 A1

TITLE: Process for the oxidative purification of terephthalic acid

PUBLICATION-DATE: June 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sheppard, Ronald Buford	Voorburg	TN	NL	
Tennant, Brent Alan	Kingsport	TN	US	
Woodruff, Thomas Earl	Kingsport	TN	US	
Lin, Robert	Kingsport		US	

US-CL-CURRENT: 562/486; 562/606

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 20040110980 A1

L8: Entry 4 of 28

File: PGPB

Jun 10, 2004

PGPUB-DOCUMENT-NUMBER: 20040110980  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040110980 A1

TITLE: Process for the oxidative purification of terephthalic acid

PUBLICATION-DATE: June 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sheppard, Ronald Buford	Voorburg	TN	NL	
Tennant, Brent Alan	Kingsport	TN	US	
Woodruff, Thomas Earl	Kingsport	TN	US	
Lin, Robert	Kingsport		US	

US-CL-CURRENT: 562/413; 562/486



Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 5. Document ID: US 20020028968 A1

L8: Entry 5 of 28

File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020028968

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020028968 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: March 7, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Graham, Derek Alexander	Cleveland		GB	
Hamley, Paul Anthony	Nottingham		GB	
Ilkenhans, Thomas	Cambridge		GB	
Oliver, Raymond	Stockton on Tees		GB	
Poliakoff, Martyn	Nottingham		GB	
Woodcock, Duncan C.	Cheshire		GB	

US-CL-CURRENT: 562/415

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 6. Document ID: US 20020002304 A1

L8: Entry 6 of 28

File: PGPB

Jan 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020002304

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020002304 A1

TITLE: PROCESS OF PURIFYING AND PRODUCING HIGH PURITY AROMATIC POLYCARBOXYLIC ACIDS

PUBLICATION-DATE: January 3, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
LIN, TSONG-DAR VINCENT	HOUSTON	TX	US	

US-CL-CURRENT: 562/485; 562/486

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 7. Document ID: US 6765113 B2

L8: Entry 7 of 28

File: USPT

Jul 20, 2004

US-PAT-NO: 6765113

DOCUMENT-IDENTIFIER: US 6765113 B2

TITLE: Production of aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 8. Document ID: US 6448436 B1

L8: Entry 8 of 28

File: USPT

Sep 10, 2002

US-PAT-NO: 6448436

DOCUMENT-IDENTIFIER: US 6448436 B1

TITLE: Integrated process for the production of 2, 6-naphthalene dicarboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 9. Document ID: US 6392091 B1

L8: Entry 9 of 28

File: USPT

May 21, 2002

US-PAT-NO: 6392091

DOCUMENT-IDENTIFIER: US 6392091 B1

TITLE: Process of purifying and producing high purity aromatic polycarboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 10. Document ID: US 6307099 B1

L8: Entry 10 of 28

File: USPT

Oct 23, 2001

US-PAT-NO: 6307099

DOCUMENT-IDENTIFIER: US 6307099 B1

TITLE: Production of terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 11. Document ID: US 6291707 B1

L8: Entry 11 of 28

File: USPT

Sep 18, 2001

US-PAT-NO: 6291707

DOCUMENT-IDENTIFIER: US 6291707 B1

TITLE: Process of purifying and producing high purity aromatic polycarboxylic acids and derivatives thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw De
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☐ 12. Document ID: US 6255525 B1

L8: Entry 12 of 28

File: USPT

Jul 3, 2001

US-PAT-NO: 6255525

DOCUMENT-IDENTIFIER: US 6255525 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Process for preparing purified carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--------	-----	---------

☐ 13. Document ID: US 6194609 B1

L8: Entry 13 of 28

File: USPT

Feb 27, 2001

US-PAT-NO: 6194609

DOCUMENT-IDENTIFIER: US 6194609 B1

TITLE: Crystallization in a plate heat exchanger

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw De
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☐ 14. Document ID: US 6133476 A

L8: Entry 14 of 28

File: USPT

Oct 17, 2000

US-PAT-NO: 6133476

DOCUMENT-IDENTIFIER: US 6133476 A

TITLE: Process for purification of aromatic polycarboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 15. Document ID: US 6018077 A

L8: Entry 15 of 28

File: USPT

Jan 25, 2000

US-PAT-NO: 6018077

DOCUMENT-IDENTIFIER: US 6018077 A

TITLE: Process for producing 2,6-naphthalenedicarboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 16. Document ID: US 5770764 A

L8: Entry 16 of 28

File: USPT

Jun 23, 1998

US-PAT-NO: 5770764

DOCUMENT-IDENTIFIER: US 5770764 A

TITLE: Process for preparing purified aromatic polycarboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 17. Document ID: US 5756833 A

L8: Entry 17 of 28

File: USPT

May 26, 1998

US-PAT-NO: 5756833

DOCUMENT-IDENTIFIER: US 5756833 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Catalytic purification and recovery of dicarboxylic aromatic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 18. Document ID: US 5728870 A

L8: Entry 18 of 28

File: USPT

Mar 17, 1998

US-PAT-NO: 5728870

DOCUMENT-IDENTIFIER: US 5728870 A

TITLE: Process for preparing purified 2,6-naphthalenedicarboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 19. Document ID: US 5629446 A

L8: Entry 19 of 28

File: USPT

May 13, 1997

US-PAT-NO: 5629446

DOCUMENT-IDENTIFIER: US 5629446 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Process for preparing purified 2,6-naphthalenedicarboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 20. Document ID: US 5616792 A

L8: Entry 20 of 28

File: USPT

Apr 1, 1997

US-PAT-NO: 5616792

DOCUMENT-IDENTIFIER: US 5616792 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Catalytic purification of dicarboxylic aromatic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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Terms

Documents

L7 and oxid\$6 and hydrogen

28

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☐ 21. Document ID: US 5563294 A

L8: Entry 21 of 28

File: USPT

Oct 8, 1996

US-PAT-NO: 5563294

DOCUMENT-IDENTIFIER: US 5563294 A

\*\* See image for Certificate of Correction \*\*

TITLE: Process for preparing purified 2,6-naphthalenedicarboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 22. Document ID: US 5354898 A

L8: Entry 22 of 28

File: USPT

Oct 11, 1994

US-PAT-NO: 5354898

DOCUMENT-IDENTIFIER: US 5354898 A

TITLE: Method for purifying crude aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 23. Document ID: US 5200557 A

L8: Entry 23 of 28

File: USPT

Apr 6, 1993

US-PAT-NO: 5200557

DOCUMENT-IDENTIFIER: US 5200557 A

TITLE: Process for preparation of crude terephthalic acid suitable for reduction to prepare purified terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 24. Document ID: US 5112992 A

L8: Entry 24 of 28

File: USPT

May 12, 1992

US-PAT-NO: 5112992

DOCUMENT-IDENTIFIER: US 5112992 A

TITLE: Production of polycarboxylic acids with hafnium-activated cobalt catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	--------

☐ 25. Document ID: US 5095135 A

L8: Entry 25 of 28

File: USPT

Mar 10, 1992

US-PAT-NO: 5095135

DOCUMENT-IDENTIFIER: US 5095135 A

TITLE: Process for the preparation of high-purity naphthalenecarboxylic acid esters

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
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☐ 26. Document ID: US 4948921 A

L8: Entry 26 of 28

File: USPT

Aug 14, 1990

US-PAT-NO: 4948921

DOCUMENT-IDENTIFIER: US 4948921 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Process for the production and recovery of trimellitic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	--------

☐ 27. Document ID: US 4755622 A

L8: Entry 27 of 28

File: USPT

Jul 5, 1988

US-PAT-NO: 4755622

DOCUMENT-IDENTIFIER: US 4755622 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Process for the production of trimellitic acid and pyromellitic acid by staged bromine addition in an oxidation of polyalkylaromatics

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
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☐ 28. Document ID: US 4675438 A

L8: Entry 28 of 28

File: USPT

Jun 23, 1987

US-PAT-NO: 4675438

DOCUMENT-IDENTIFIER: US 4675438 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Direct continuous flow integration of production and purification of high



purity iso- or terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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Terms	Documents
L7 and oxid\$6 and hydrogen	28

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